Mohamed Sugal

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EDUCATION

University of Florida
BS in Computer Science
May 2021 | Gainesville, FL
Computer & Information Science
& Engineering
Cum. GPA: 3.4 / 4.0
Major GPA: 3.5 / 4.0

LINKS

Github:// **mohamedsugal**
LinkedIn:// **mohamedsugal**
Twitter:// **@mohamadsugal**

COURSEWORK

Undergraduate
Programming in Java
Programming in C++
Data Structures & Algorithms
Computational Linear Algebra
Discrete Structures
Computer Organization
Information & Database Systems
Software Engineering
Computer & Information Security

Coursera
Parallel, concurrent, & distributed
programming Specialization
Algorithms Specialization
Machine Learning Specialization

SKILLS

Programming
Proficient:
Python • JavaScript • Java
Familiar:
C++ • C

Web Technologies
Node.js • Express.js • React
Typescript • GraphQL • HTML/CSS

Databases
MySQL • PostgreSQL • MongoDB

INTERESTS

Full-stack Development
Back-end Development
Cloud Computing

EXPERIENCE

Capital One | Software Engineer Intern
July 2020 – Aug 2020 | Plano, TX
- Created a UI component for the auto refinance offers page on top of existing UI components using **Lit-element (Polymer)**.
- Integrated **Multi-Armed Bandit (MAB)** to show the customers a personalized UI experience based on multiple factors, which is expected to increase customer conversion rate by 20%
- Developed an API that pulls feedback from the **MAB** and sends it to the Front-end to suggest a UI experience using **Java (Spring Boot)**.

DHC | Software Engineer Intern
May 2017 – Aug 2017 | Louisville, KY
- Built a web application using **Python/Django** stack backed by Celery, RabbitMQ, PostgreSQL.
- Increased test coverage of code over 5x, using unit tests, nosetests, coverage.py, and **Selenium**.
- Optimized web page delivery speed, >20% speed increase, using cache and compression.

PROJECTS

NBA Wager Statistics | React, Node.js, SQL
March 2020 - May 2020
A web app with data visualization and comparison tool that allows users to see NBA players and teams, compare between their stats, and display their wager demographics.

Mindfulness | Java, Firebase, Firestore
April 2019 - May 2019
Android app that allows users to keep a journal about their thoughts, feelings, and experiences and reflect upon them in a later time to find a source of inspiration or better understand their thought process.

RESEARCH

J.B. Speed Engineering | Undergrad Research Assistant
Aug 2018 – Dec 2018 | Louisville, KY
- Proposed and developed a Machine Learning recommendation system utilizing **NLP** and Ontologies using **Python**.
- Improved contextual knowledge understanding and matchmaking by utilizing skill ontology to construct novel modified bag-of-words model, which lead to a 65% increase in accuracy.
- Used Protege for Ontology management, NLTK for NLP, and Spark on **AWS** to run the learning.

AWARDS & ACTIVITIES

- National Science Foundation Scholar - 2019 & 2020.
- CODE2040 organization finalist - 2018.
- Member of the Swamp Hacks at University of Florida.
- Member of Association in Computing Machinery.
- Member of Society of Black Engineers.